

COMPUTER SCIENCE

GRADUATE DIRECTOR: I.V. RAMAKRISHNAN

DEPARTMENT CHAIR: ARIE KAUFMAN

❖ Grants, Fellowships, and Awards

Borodin, Yevgen. (2010) President's Award to Distinguished Doctoral Students, \$500. *Stony Brook University*, Stony Brook, NY.

Fodor, Paul. (2009) Travel Grant Award, \$950. *Semantic Web Science Assoc.*, Karlsruhe, Germany.

Liang, Senlin. (2009) Student Travel Grant, \$950. *National Research Foundation*, Arlington, VA.

Wan, Hui. (2009) NSF Student Travel Grant, \$950. *National Research Foundation*, Arlington, VA.

Wan, Hui. (2009) Student Travel Grant, \$800. *25th International Conference on Logic Programming (ICLP)*, Pasadena, CA.

Xu, W., Mueller, K. (2009) Best Paper Award for A Performance-Driven Study of Regularization Methods for GPU-Accelerated Iterative CT. *Workshop on High Performance Image Reconstruction (Fully 3D Image Reconstruction in Radiology and Nuclear Medicine)*, Beijing, China.

Zhang, W. (2010) Student Travel Grant Award, \$1,500. *The American Finance Association*, Atlanta, GA.

❖ Jointly Authored Publications/Research Reports/Reviews

Borodin, Y., Kawanaka, S., Takagi, H., Kobayashi, M., Sato, D., Asakawa, C. (2010) Chapter 18: Social Accessibility: a Collaborative Approach for Improving Web Accessibility. In Allen Cypher Mira Dontcheva Tessa Lau Jeffrey Nichols (Eds.), *No Code Required: Giving Users Tools to Transform the Web*. San Francisco, CA: Morgan Kaufmann.

Deshpande, P., Kashyap, A., Chul, S., Das, S. R. (2009) Predictive Methods for Improved Vehicular WiFi Access. *7th ACM International Conference on Mobile Systems, Applications and Services (MobiSys 2009)*. Krakao, Poland.

Petkov, K., Qiu, F., **Fan, Z.,** Kaufman, A., Mueller, K. (2009) Efficient LBM Visual Simulation on Face-Centered Cubic Lattices. *IEEE Transactions on Visualization and Computer Graphics 15(5)*: 802-814.

Fodor, P., Kifer, M, Liang, S., Wan, H. (2010) OpenRuleBench Benchmarks for Semantic Web Rule Engines Re-run Report 2010. <http://rulebench.projects.semwebcentral.org> . Stony Brook, NY.

Wan, H., Grosz, B., Kifer, M., **Fodor, P.,** Liang, S. (2009) Logic Programming with Defaults and Argumentation Theories. *Proceedings of 25th International Conference on Logic Programming (ICLP)*. Pp. 432-448, Lecture Notes in Computer Science. Pasadena, CA: Springer-Verlag.

Liang, S., **Fodor, P.,** Wan, H., Kifer, M. (2009) OpenRuleBench: An Analysis of the Performance of Rule Engines. *Proceedings of 18th International World Wide Web Conference (WWW)*:601-610. ACM, Madrid, Spain.

Fusco, G., Gupta, H. (2009) ϵ -Net Approach to Sensor k-Coverage. *EURASIP Journal on Wireless Communications and Networking 2010*: 192752.

Goldstein, R., Tomasi, D., Alia-Klein, N., **Honorio, J.,** Maloney, T., Woicik, P., Wang, R., Telang, F., Volkow, N. (2009) Dopaminergic Response to Drug Words in Cocaine Addiction. *Journal of Neuroscience 29(18)*: 6001-6.

- Goldstein, R., Alia-Klein, N., Tomasi, D., **Honorio, J.**, Maloney, T., Woicik, P., Wang, R., Telang, F., Volkow, N. (2009) Anterior Cingulate Cortex Hypoactivations to an Emotionally Salient Task in Cocaine Addiction. *Proceedings of the National Academy of Sciences* 106(23): 9453-8.
- Xu, Q., **Hou, X.**, Cui, B., Shen, H. T., Dai, Y. (2009) Facilitating Effective Resource Publishing and Searching in DHT Networks. *HKIE Transactions* 16(3): 32-41.
- Kang, H.**, Chen, H., Jiang, G. (In Press) PeerWatch: a Fault Detection and Diagnosis Tool for Virtualized Consolidation Systems. *The 7th IEEE International Conference on Autonomic Computing*. Washington, D.C.
- Deshpande, P., **Kashyap, A.**, Chul, S., Das, S. R. (2009) Predictive Methods for Improved Vehicular WiFi Access. *7th ACM International Conference on Mobile Systems, Applications and Services (MobiSys 2009)*. Krakao, Poland.
- Li, Bo.**, Li, X., Wang, K., Qin, H. (2010) Generalized PolyCube Trivariate Spline. *Proceedings of IEEE Shape Modeling International*. Arts et Métiers ParisTech, Aix-en-Provence, France.
- Li, S.**, Jackowski, M., Varslot, T., Dione, D., Staib, L., Mueller, K., (2010) (In Press) Refraction Corrected Transmission Ultrasound Computed Tomography for Application in Breast Imaging. *Medical Physics*.
- Fodor, P., Kifer, M., **Liang, S.**, Wan, H. (2010) OpenRuleBench Benchmarks for Semantic Web Rule Engines Re-run Report 2010. <http://rulebench.projects.semwebcentral.org> . Stony Brook, NY.
- Wan, H., Grosz, B., Kifer, M., Fodor, P., **Liang, S.**, (2009) Logic Programming with Defaults and Argumentation Theories. *Proceedings of 25th International Conference on Logic Programming (ICLP)*. Pp. 432-448 in Lecture Notes in Computer Science. Pasadena, CA: Springer-Verlag.
- Liang, S.**, Fodor, P., Wan, H., Kifer, M. (2009) OpenRuleBench: An Analysis of the Performance of Rule Engines. *Proceedings of 18th International World Wide Web Conference (WWW)*: 601-610. ACM, Madrid, Spain.
- Deb, S., Srinivasan, V., **Maheshwari, R.** (In Press) Dynamic Spectrum Access in DTV Whitespaces: Design Rules, Architecture and Algorithms. *ACM Mobicom 2009*. Beijing, China.
- Santi, P., **Maheshwari, R.**, Resta, G., Das, S. R., Blough, D. M. (2009) Wireless Link Scheduling Under a Graded SINR Interference Model. *Proceedings of 2nd ACM International Workshop on Foundations of Wireless Ad Hoc and Sensor Networking and Computing (FOWANC) held in conjunction with ACM Mobihoc 2009*. New Orleans, LA.
- Maheshwari, R.**, Cao, J., Das, S. R. (2009) Physical Interference Modeling for Transmission Scheduling on Commodity WiFi Hardware. *Proceedings of 28th IEEE International Conference on Computer Communications Mini Conference (IEEE INFOCOM)*. Rio de Janeiro, Brazil.
- Nam, J., **Maurer, M.**, Mueller, K. (2009) A High-Dimensional Feature Clustering Approach to Support Knowledge-Assisted Visualization. *Computers & Graphics* 33(5): 607-615.
- Nam, J.**, Maurer, M., Mueller, K. (2009) A High-Dimensional Feature Clustering Approach to Support Knowledge-Assisted Visualization. *Computers & Graphics* 33(5): 607-615.
- Papaioannou, G., Menexi, M.L., **Papadopoulos, C.** (2010) Real-time Volume-based Ambient Occlusion. *Transactions on Visualization and Computer Graphics* (Preprint).
- Papadopoulos, C.**, Papaioannou G. (2009) Realistic Real-time Underwater Caustics and Godrays. *Proceedings of Graphicon 2009*. Moscow State University, Moscow, Russia.
- Petkov, K.**, Qiu, F., Fan, Z., Kaufman, A., Mueller, K. (2009) Efficient LBM Visual Simulation on Face-Centered Cubic Lattices. *IEEE Transactions on Visualization and Computer Graphics* 15(5): 802-814.
- Petkov, K., **Qiu, F.**, Fan, Z., Kaufman, A., Mueller, K. (2009) Efficient LBM Visual Simulation on Face-Centered Cubic Lattices. *IEEE Transactions on Visualization and Computer Graphics* 15(5): 802-814.

- Marina, M. K., Das, S. R., **Subramanian, A.P.** (2009) A Topology Control Approach for Utilizing Multiple Channels in Multi-Radio Wireless Mesh Networks. *Elsevier Computer Networks Journal Special Issue on Multi-Hop Wireless Access Networks 54(2)*: 241-256.
- Subramanian, A.P.**, Lundgren, H., Salonidis, T., Towsley, D. (2009) Topology Control Protocol Using Sectorized Antennas in Dense 802.11 Wireless Networks. *Proceedings of the 17th IEEE International Conference on Network Protocols (ICNP 2009)*. Princeton, N.J.
- Subramanian, A.P.**, Lundgren, H., Salonidis, T. (2009) Experimental Characterization of Sectorized Antennas in Dense 802.11 Wireless Mesh Networks. *Proceedings of the 10th ACM International Symposium on Mobile Ad Hoc Networking and Computing (MobiHoc 2009)*. New Orleans, LA.
- Subramanian, A.P.**, Cao, J., Sung, C., Das, S. R. (2009) Understanding Channel and Interface Heterogeneity in Multi-channel Multi-radio Wireless Mesh Networks. *Proceedings of 10th Passive and Active Measurement Conference (PAM 2009)*. Seoul, South Korea.
- Uddin, B.M.**, Castelluccia, C. (In Press) Toward Clock Skew Based Services in Wireless Sensor Networks. *International Journal of Sensor Networks, (IJS Net) Special Issue: Recent Advances in Sensor Integration*.
- Fodor, P., Kifer, M., Liang, S., **Wan, H.** (2010) OpenRuleBench Benchmarks for Semantic Web Rule Engines Re-run Report 2010. <http://rulebench.projects.semwebcentral.org> . Stony Brook, NY.
- Wan, H.**, Grosf, B., Kifer, M., Fodor, P., Liang, S. (2009) Logic Programming with Defaults and Argumentation Theories. *Proceedings of 25th International Conference on Logic Programming (ICLP)*. Pp. 432-448 in Lecture Notes in Computer Science. Pasadena, CA: Springer-Verlag.
- Liang, S., Fodor, P., **Wan, H.**, Kifer, M. (2009) OpenRuleBench: An Analysis of the Performance of Rule Engines. *Proceedings of 18th International World Wide Web Conference (WWW)*: 601-610. ACM, Madrid, Spain.
- Wan, H.**, Kifer, M. (2009) Belief Logic Programming: Uncertainty Reasoning with Correlation of Evidence. *Proceedings of 10th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR)*. Pp. 316-328 in Lecture Notes in Artificial Intelligence. Potsdam, Germany: Springer-Verlag.
- Wan, H.**, Kifer, M. (2009) Query Answering in Belief Logic Programming. *Proceedings of 3rd International Conference on Scalable Uncertainty Management (SUM)*. Pp. 268-281 in Lecture Notes in Artificial Intelligence. Washington, D.C.: Springer-Verlag.
- Wan, H.** (2009) Belief Logic Programming with Cyclic Dependencies. *Proceedings of 3rd International Conference on Web Reasoning and Rule Systems (RR)*. Pp. 150-165 in Lecture Notes in Computer Science. Chantilly, VA: Springer-Verlag.
- Li, B., Li, X., **Wang, K.**, Qin, H. (2010) Generalized PolyCube Trivariate Spline. *Proceedings of IEEE Shape Modeling International*. Arts et Métiers ParisTech, Aix-en-Provence, France.
- Xu, F.**, Xu, W., Mueller K. (In Press) On the Efficiency of Iterative Ordered Subset Reconstruction Algorithms for Acceleration on GPUs. *Computer Methods and Programs in Biomedicine '09*.
- Xu, W., **Xu, F.**, Jones, M., Keszthelyi, B., Sedat, J., Agard, D., Mueller, K. (In Press) High-Performance Iterative Electron Tomography Reconstruction with Long-Object Compensation using Graphics Processing Units (GPUs). *Journal of Structural Biology*.
- Xu, F.**, Xu, W., Jones, M., Keszthelyi, B., Sedat, J., Agard, D., Mueller, K. (In Press) On the Efficiency of Iterative Ordered Subset Reconstruction Algorithms for Acceleration on GPUs. *Computer Methods and Programs in Biomedicine*.
- Xu, W.**, Xu, F., Jones, M., Keszthelyi, B., Sedat, J., Agard, D., Mueller, K. (In Press) High-Performance Iterative Electron Tomography Reconstruction with Long-Object Compensation using Graphics Processing Units (GPUs). *Journal of Structural Biology*.

- Xu, F., **Xu, W.**, Jones, M. Keszthelyi, B., Sedat, J., Agard, D., Mueller, K. (2010) On the Efficiency of Iterative Ordered Subset Reconstruction Algorithms for Acceleration on GPUs. *Computer Methods and Programs in Biomedicine*.
- Mueller, K., Xu, F., Zheng, Z., **Xu, W.** (2010) MIC-GPU: High-Performance Computing for Medical Imaging on Programmable Graphics Hardware (GPU). *Course SC829 of SPIE on Medical Imaging 2009*. San Diego, CA.
- Xu F., **Xu, W.**, Mueller K. (In Press) On the Efficiency of Iterative Ordered Subset Reconstruction Algorithms for Acceleration on GPUs. *Computer Methods and Programs in Biomedicine '09*.
- Xu, W.**, Mueller, K. (In Press) Parameter Space Visualizer: An Interactive Parameter Selection Interface for Iterative CT Reconstruction Algorithms. *Proceedings of SPIE, vol. 7625 (SPIE Medical Imaging)*. San Diego, CA.
- Xu, W.**, Mueller, K. (2009) Learning Effective Parameter Settings for Iterative CT Reconstruction Algorithms. *10th Fully Three-Dimensional Image Reconstruction in Radiology and Nuclear Medicine '09*: 251-254.
- Xu, W.**, Mueller, K. (2009) A Performance-Driven Study of Regularization Methods for GPU-Accelerated Iterative CT. *10th Fully Three-Dimensional Image Reconstruction in Radiology and Nuclear Medicine '09 High Performance Image Reconstruction Workshop*: 20-23.
- Xu, W.**, Mueller, K. (2009) Accelerating Regularized Iterative CT Reconstruction on Commodity Graphics Hardware (GPU). *IEEE International Symposium on Biomedical Imaging (ISBI '09)*: 1287-1290.
- Zhang, W.**, Skiena, S. (2009) Improving Movie Gross Prediction Through News Analysis. *The 2009 IEEE/WIC/ACM International Conference on Web Intelligence*. Milan, Italy.
- Zhang, W.**, Skiena, S. (2010) Trading Strategies to Exploit News and Blog Sentiment. *The 4th International AAAI Conference on Weblogs and Social Media*. Washington, D.C.
- Zhao, X.**, Kaufman, A. (In Press) Multi-dimensional Reduction and Transfer Function Design Using Parallel Coordinates. *IEEE/EG International Symposium on Volume Graphics (2010)*. Norrkoping, Sweden.
- Zeng, Y.**, Wang, C., Wang, Y., Gu, X., Samaras, D., Paragios, N. (2010) Dense Non-rigid Surface Matching using High-order Graph Matching. *Computer Vision and Pattern Recognition (CVPR)*. San Francisco, CA.
- Zheng, Z.**, Mueller, K. (In Press) Reconstruction and Visualization of Model-based Volume Representations. *Proceedings of SPIE Medical Imaging 7625 (SPIE Medical Imaging)*. San Diego, CA.
- Mueller, K., Xu, F., **Zheng, Z.**, Xu, W. (2010) MIC-GPU: High-Performance Computing for Medical Imaging on Programmable Graphics Hardware (GPU). *Course SC829 of SPIE on Medical Imaging 2009*. San Diego, CA.
- Men, C., Gu, X., Choi, D., Majumdar, A., **Zheng, Z.**, Mueller, K., Jiang, S. (2009) GPU-based Ultra Fast IMRT Plan Optimization. *Physics in Medicine and Biology* 54(21): 6565-6573.

❖ Abstracts, Conferences/Colloquiums, Presentations, Symposiums, Workshops

- Islam, M.A., **Ahmed, F.**, Borodin, Y., Mahmud, J., Ramakrishnan, I.V. (2010) Improving Accessibility of Transaction-centric Web Objects. *Tenth SIAM International Conference on Data Mining, SDM 2010*. Columbus, OH.
- Borodin, Y., **Ahmed, F.**, Islam, M. A., Feng, S., Puzis, Y., Melnyk, V., Ramakrishnan, I. V., Dausch, G. (2010) Hearsay: A New Generation Context-Driven Multi-Modal Assistive Web Browser. *International World Wide Web Conference-WWW 2010*. Raleigh, NC.

- Bhuvan, M.,** Deshmukh, P., Sekar, R.C. (2010) A Framework for Enforcing Policies and Ensuring Usability in Integrity Preserving Operating Systems. *Graduate Research Conference @Center for Excellence in Wireless and Information Technology*. Stony Brook, NY.
- Borodin, Y.,** Bigham, J., Dausch, G., Ramakrishnan, I. V. (2010) More than Meets the Eye: A Survey of Browsing Strategies with Screen Reader. *International Cross-Disciplinary Conference on Web Accessibility – W4A 2010*. Raleigh, NC.
- Borodin, Y.** (2010) Remote Web Browsing via the Phone with TeleWeb. *28th ACM CHI Conference on Human Factors in Computing Systems – CHI 2010*. Atlanta, GA.
- Borodin, Y.,** Ahmed, F., Islam, M. A., Feng, S., Puzis, Y., Melnyk, V., Ramakrishnan, I. V., Dausch, G. (2010) Hearsay: A New Generation Context-Driven Multi-Modal Assistive Web Browser. *International World Wide Web Conference-WWW 2010*. Raleigh, NC.
- Islam, M.A., Ahmed, F., **Borodin, Y.,** Mahmud, J., Ramakrishnan, I.V. (2010) Improving Accessibility of Transaction-centric Web Objects. *Tenth SIAM International Conference on Data Mining, SDM 2010*. Columbus, OH.
- Bhuvan, M., **Deshmukh, P.,** Sekar, R.C. (2010) A Framework for Enforcing Policies and Ensuring Usability in Integrity Preserving Operating Systems. *Graduate Research Conference @Center for Excellence in Wireless and Information Technology*. Stony Brook, NY.
- Feng, S.** (2010) Stream Data Facilitated Web Automation. *CRA-W Grad Cohort Workshop 2010*. Bellevue, WA.
- Borodin, Y., Ahmed, F., Islam, M. A., **Feng, S.,** Puzis, Y., Melnyk, V., Ramakrishnan, I. V., Dausch, G. (2010) Hearsay: A New Generation Context-Driven Multi-Modal Assistive Web Browser. *International World Wide Web Conference-WWW 2010*. Raleigh, NC.
- Anicic, D., **Fodor, Paul,** Stühmer, R., Stojanovic, N. (2009) Event-driven Approach for Logic-based Complex Event Processing. *The IEEE International Conference on Computational Science and Engineering (CSE09)*. Vancouver, BC.
- Anicic, D., **Fodor, P.,** Stühmer, R., Stojanovic, N. (2009) An Approach for Data-driven and Logic-based Complex Event Processing . *3rd ACM International Conference on Distributed Event-Based Systems (DEBS 2009)*. Nashville, TN.
- Anicic, D., **Fodor, P.,** Stühmer, R., Stojanovic, N. (2009) Computing Complex Events in an Event-driven and Logic-based Approach – Demo. *3rd ACM International Conference on Distributed Event-Based Systems (DEBS 2009)*. Nashville, TN.
- Wan, H., Grosz, B., Kifer, M., **Fodor, P.,** Liang, S. (2009) Logic Programming with Defaults and Argumentation Theories. *Proceedings of 25th International Conference on Logic Programming (ICLP)*. Pp. 432-448, Lecture Notes in Computer Science. Pasadena, CA: Springer-Verlag.
- Liang, S., **Fodor, P.,** Wan, H., Kifer, M. (2009) OpenRuleBench: An Analysis of the Performance of Rule Engines. *Proceedings of 18th International World Wide Web Conference (WWW)*:601-610. ACM, Madrid, Spain.
- Fusco, G.,** Gupta, H. (2009) Selection and Orientation of Directional Sensors for Coverage Maximization. *IEEE Conference on Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON '09)*. Rome, Italy.
- Fusco, G.,** Gupta, H. (2009) ϵ -Net Approach to Sensor k-Coverage. *Conference on Wireless Algorithms, Systems and Applications (WASA '09)*. Boston, MA.
- Fusco, G.,** Gupta, H. (2010) Placement and Orientation of Rotating Directional Sensors. *IEEE Conference on Communications Society Conference on Sensor, Mesh and Ad Hoc Communications and Networks (SECON '10)*. Boston, MA.

- Garg, S.**, Berg, T., Mueller, K. (2009) Iconizer: A Framework to Identify and Create Effective Representations for Visual Information Encoding. *IEEE Visualization Conference*. Atlantic City, NJ. (poster)
- Hamed Azimi, N.**, Hou, X., Gupta, H., Gao, J. (2010) Data Preservation under Spatial Failures in Sensor Networks. *INFOCOM Mini Conference*. San Diego, CA.
- Hart, M.**, Johnson, R., Stent, A. (2009) iTag: A Personalized Blog Tagger. *RecSys '09: Proceedings of the 3rd ACM Conference on Recommender Systems*. New York, NY.
- Hart, M.**, Castille, C., Johnson, R., Stent, A. (2009) Usable Privacy Controls for Blogs. *CSE '09: Proceedings of the 2009 International Conference on Computational Science and Engineering*. Vancouver, BC.
- Honorio, J.**, Samaras, D., Tomasi, D., Goldstein, R. (2010) Simple Fully Automated Group Classification on Brain fMRI. *IEEE International Symposium on Biomedical Imaging*. Rotterdam, Netherlands.
- Honorio, J.**, Ortiz, L., Samaras, D., Paragios, N., Goldstein, R. (2009) Sparse and Locally Constant Gaussian Graphical Models. *Neural Information Processing Systems*. Vancouver, BC.
- Honorio, J.**, Ortiz, L., Samaras, D., Goldstein, R. (2009) Learning Brain fMRI Structure Through Sparseness and Local Constancy. *Neural Information Processing Systems, Workshop on Connectivity Inference in NeuroImaging*. Vancouver, BC.
- Langs, G., Samaras, D., Paragios, N., **Honorio, J.**, Golland, P., Alia-Klein, N., Tomasi, D., Volkow, N., Goldstein, R. (2009) A Functional Geometry of fMRI BOLD Signal Interactions. *Neural Information Processing Systems, Workshop on Connectivity Inference in NeuroImaging*. Vancouver, BC.
- Hamed Azimi, N., **Hou, X.**, Gupta, H., Gao, J. (2010) Data Preservation under Spatial Failures in Sensor Networks. *INFOCOM Mini Conference*. San Diego, CA.
- Xu, Q., Shen, H. T., Cui, B., **Hou, X.**, Dai, Y. (2009) A Novel Content Distribution Mechanism in DHT Networks. *8th International IFIP-TC 6 Networking Conference (Networking'09)*. Aachen, Germany.
- Borodin, Y., Ahmed, F., **Islam, M.A.**, Feng, S., Puzis, Y., Melnyk, V., Ramakrishnan, I. V., Dausch, G. (2010) Hearsay: A New Generation Context-Driven Multi-Modal Assistive Web Browser. *International World Wide Web Conference-WWW 2010*. Raleigh, NC.
- Islam, M.A.**, Ahmed, F., Borodin, Y., Mahmud, J., Ramakrishnan, I.V. (2010) Improving Accessibility of Transaction-centric Web Objects. *Tenth SIAM International Conference on Data Mining, SDM 2010*. Columbus, OH.
- Kashyap, A.**, Paul, U., Das, S.R. (2010) Deconstructing Interference Relations in WiFi Networks. *IEEE SECON*. Boston, MA.
- Wan, H., Grosz, B., Kifer, M., Fodor, P., **Liang, S.** (2009) Logic Programming with Defaults and Argumentation Theories. *Proceedings of 25th International Conference on Logic Programming (ICLP)*. Pp. 432-448 in Lecture Notes in Computer Science. Pasadena, CA: Springer-Verlag.
- Liang, S.**, Fodor, P., Wan, H., Kifer, M. (2009) OpenRuleBench: An Analysis of the Performance of Rule Engines. *Proceedings of 18th International World Wide Web Conference (WWW)*: 601-610. ACM, Madrid, Spain.
- Borodin, Y., Ahmed, F., Islam, M. A., Feng, S., Puzis, Y., **Melnyk, V.**, Ramakrishnan, I. V., Dausch, G. (2010) Hearsay: A New Generation Context-Driven Multi-Modal Assistive Web Browser. *International World Wide Web Conference-WWW 2010*. Raleigh, NC.
- Montes, P., **Memelli, H.**, Ward, C., Kim, J., Mitchell, J. S. B., Skiena, S. (2010) Optimizing Restriction Site Placement for Synthetic Genomes. *21st Annual Symposium on Combinatorial Pattern Matching (CPM 2010)*. Polytechnic Institute of NYU, New York City, NY.

- Mital, B.,** Deshmukh, P., Sekar, R.C. (2010) A Framework for Enforcing Policies and Ensuring Usability in Integrity Preserving Operating Systems. *Graduate Research Conference @Center for Excellence in Wireless and Information Technology*. Stony Brook, NY.
- Montes, P.,** Memelli, H., Ward, C., Kim, J., Mitchell, J. S. B., and Skiena, S. (2010) Optimizing Restriction Site Placement for Synthetic Genomes. *21st Annual Symposium on Combinatorial Pattern Matching (CPM 2010)*. Polytechnic Institute of NYU, New York City, NY.
- Dinh, Q., **Neophytou, N.,** Mueller, K. (2009) Continuous FVR of Irregularly Sampled Data Using Gaussian RBFs. *IEEE Visualization Conference*. Atlantic City, NJ. (poster)
- Papadopoulos, C.,** Kaufman A. (2010) CAVE-Troll, A Framework for Large Scale Immersive Visualization. *Center for Dynamic Data Analytics Workshop*. Stony Brook – Manhattan, New York, NY.
- Paul, U.,** Das, S. R., Maheshwari, R. (2010) Detecting Selfish Carrier-Sense Behavior in WiFi Networks by Passive Monitoring. *IEEE Dependable Systems and Networks*. Chicago, IL.
- Kashyap, A., **Paul, U.,** Das, S. R. (2010) Deconstructing Interference Relations in WiFi Networks. *IEEE SECON*. Boston, MA.
- Borodin, Y., Ahmed, F., Islam, M. A., Feng, S., **Puzis, Y.,** Melnyk, V., Ramakrishnan, I. V., Dausch, G. (2010) Hearsay: A New Generation Context-Driven Multi-Modal Assistive Web Browser. *International World Wide Web Conference-WWW 2010*. Raleigh, NC.
- Wan, H.,** Kifer, M. (2009) Belief Logic Programming: Uncertainty Reasoning with Correlation of Evidence. *Proceedings of 10th International Conference on Logic Programming and Nonmonotonic Reasoning (LPNMR)*. Pp. 316-328 in Lecture Notes in Artificial Intelligence. Potsdam, Germany: Springer-Verlag.
- Wan, H.,** Kifer, M. (2009) Query Answering in Belief Logic Programming. *Proceedings of 3rd International Conference on Scalable Uncertainty Management (SUM)*. Pp. 268-281 in Lecture Notes in Artificial Intelligence. Washington, D.C.: Springer-Verlag.
- Wan, H.** (2009) Belief Logic Programming with Cyclic Dependencies. *Proceedings of 3rd International Conference on Web Reasoning and Rule Systems (RR)*. Pp. 150-165 in Lecture Notes in Computer Science. Chantilly, VA: Springer-Verlag.
- Montes, P., Memelli, H., **Ward, C.,** Kim, J., Mitchell, J.S.B., and Skiena, S. (2010) Optimizing Restriction Site Placement for Synthetic Genomes. *21st Annual Symposium on Combinatorial Pattern Matching (CPM 2010)*. Polytechnic Institute of NYU, New York City, NY.
- Xu, F.,** Mueller, K. (2009) Optimal Sampling Lattices for High-Fidelity CT Reconstruction. *IEEE Medical Imaging Conference*. Orlando, FL.
- Mueller, K., Xu, W., Zheng, Z., **Xu, F.** (2010) Course SC829: MIC-GPU: High-Performance Computing for Medical Imaging on Programmable Graphics Hardware (GPU). *SPIE on Medical Imaging 2010*. San Diego, CA.
- Xu, W.,** Mueller, K. (2009) Learning Effective Parameter Settings for Iterative CT Reconstruction Algorithms. *Fully 3D Image Reconstruction in Radiology and Nuclear Medicine*. Beijing, China.
- Xu, W.,** Mueller, K. (2009) Accelerating Regularized Iterative CT Reconstruction on Commodity Graphics Hardware (GPU). *IEEE International Symposium on Biomedical Imaging (ISBI)*. Boston, MA. (invited paper)
- Xu, W.,** Mueller, K. (2009) A Performance-Driven Study of Regularization Methods for GPU-Accelerated Iterative CT. *Workshop on High Performance Image Reconstruction (Fully 3D Image Reconstruction in Radiology and Nuclear Medicine)*. Beijing, China.

Computer Science

Mueller, K., **Xu, W.**, Zheng, Z., Xu, F. (2010) Course SC829: MIC-GPU: High-Performance Computing for Medical Imaging on Programmable Graphics Hardware (GPU). *SPIE on Medical Imaging 2010*. San Diego, CA.

Zhang, W. (2009) Improving Movie Gross Prediction Through News Analysis. *The 29th International Symposium on Forecasting*. Hong Kong, China.

Zheng, Z. (2009) High Precision Volume Rendering for CT. *CEWIT Conference*. Islandia, NY.

Mueller, K., Xu, W., **Zheng, Z.**, Xu, F. (2010) Course SC829: MIC-GPU: High-Performance Computing for Medical Imaging on Programmable Graphics Hardware (GPU). *SPIE on Medical Imaging 2010*. San Diego, CA.

Zhou, D., Gao, J. (2010) Maintaining Approximate Minimum Steiner Tree and k -center for Mobile Agents in a Sensor Network. *Proceedings 29th Annual IEEE Conference on Computer Communications (INFOCOM'10), Mini-Conference*. San Diego, CA.

Gao, J., **Zhou, D.** (2010) The Emergence of Sparse Spanners and Greedy Well Separated Pair Decomposition. *Proceedings 12th Scandinavian Symposium and Workshops on Algorithm Theory (SWAT'10)*. Bergen, Norway.

❖ Post-Doctorates Obtained and Professional Appointments

Borodin, Yevgen. (2010) Research Scientist. Computer Science Department, *Stony Brook University*, Stony Brook, NY.

❖ Software Developed

Fodor, P., Kifer, M. (2010) An Optimized Interpreter for Transaction Logic and a Performance Evaluation Suite. <http://flora.sourceforge.net/tr-interpreter-suite.tar.gz>. *Stony Brook University*, Stony Brook, NY

Fodor, P., Anicic, D. (2009-2010) ETALIS Engine for Complex Event Processing. Web page: <http://code.google.com/p/etalis>. Stony Brook, NY, *Included in "Languages for event processing", Event Processing Technical Society <http://www.ep-ts.com/content/view/79/109/> and "Fast Flowers delivery use case" chapter, accompanying the book "Event Processing In Action", by Opher Etzion and Peter Niblett, Manning Publications, 2009.*

❖ Internship Appointments

Deshpande, Pralhad. (2009) Summer Intern. *Bell Labs, Alcatel-Lucent*, Murray Hill, N.J.

Deshpande, Pralhad. (2010) Research Intern. *Microsoft Research*, Bangalore, India.

Hui, K. (2009) Research intern. *NEC Lab*, Princeton, NJ.

❖ Other

Borodin, Yevgen. (2010) Commencement Speaker. *Ph.D. Hooding Ceremony*, Stony Brook University, Stony Brook, NY.